

GSM Gateway with 4/8/16/32 Ports



USER MANUAL

Introducing the GSM Gateway with 4, 8, 16 or 32 incoming ports.

When connected to a PABX or various SLT phones the Gateway provides clear and reliable voice communication and is ideal for use in schools, hospitals, site offices etc., particularly in areas where land lines are erratic or not available.

Please read the user manual carefully before installing the Gateway.

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1. Summarize

The design of the 4/8/16/32 Gateway is to connect a standard telephone or PABX to the GSM Cell Network of your choice.

The interface board of the 4/8/16/32 Gateway supply a clear bond between standard phone or a VOIP GATEWAY or A PBX and GSM Cell Network it has the function of the emulation phone exchanger and supply:

- ☒ Dialing tone
- ☒ DTMF Dialing
- ☒ FSK/DTMF Caller ID.
- ☒ Bell signal
- ☒ Polarity reversal
- ☒ The RJ-11 socket which connects the phone or the payphone
- ☒ Antenna socket (FME)
- ☒ IP usage switch
- ☒ Working state indicator
- ☒ Signal Strength indicator

2. Configuration and installation

1). 4/8/16/32 port Gateway package list

- | | |
|------------------------------------------------------------------------|-----------------|
| <input checked="" type="checkbox"/> Fixed Wireless Terminal(mainframe) | 1pcs |
| <input checked="" type="checkbox"/> 850/1900/1800/900MHz antenna(FME) | 1set(4/8/32pcs) |
| <input checked="" type="checkbox"/> Users Guide | 1pcs |
| <input checked="" type="checkbox"/> Data cable (optional) | 1pcs |

2). Installation Steps:

The equipment adopts digit GSM network communication mode, it need effective SIM card.

- ① Install the Fixed Wireless Terminal in a suitable place.

- ② Turn off the power at the back of the unit.
- ③ Install effective SIM card.
 - a) Take off the screw of the SIM card cover at the back of the unit
 - b) Open the SIM card cover.
 - c) Move the SIM card clamp according to the arrow.
 - d) Lift the SIM card clamp to insert the SIM card
 - e) Press the SIM card clamp and move it to firmClose the SIM card cover then wring the screw.
- ④ Input the antenna into the socket.
- ⑤ Plug the end of the conjunction line of the phone(payphone) into the RJ-11 socket of the FWT and connect the other end to the phone(payphone).
- ⑥ Plug the 220v/110v socket and connect the other end to the power socket at the back of the FWT.
- ⑦ Turn on the power at the back of the FWT

You can operate the FWT after installing and passing the setting of the system initialization of the network supplier.

3. Function

4/8/16/32 port GSM Gateway is wireless equipment which is based on wireless module SIM340 or Q2403, it communicates clearly and has no noise, with insider backup battery and is convenient and durable.

The function of the FWT is as follows:

1. Supply two set extensions to connect
2. Incoming call display
3. Set local code, IP access code and special number;
Set limiting to dial national long distance call, mobile
4. phone call and local call, set using IP or not ;
6. Lock phone and telecom operator ;
7. Lock card automatically, lock card with random PIN code or fixed PIN code .

4. Operation

4.1 Turn on

Turn on the power, the unit need about 2 minutes to load initialize date automatically and search network, in the period the working indicator keep on lighting, you can listen to the dialing tone after picking up the handset, the indicator will flash at 1Hz frequency. In

the process of turning on the phone , when you set locking unit (lock card ,lock network), the unit will check automatically according to the setting, if it fails to pass check, it will supply 2 minutes error tone through the phone then disconnect the phone.

4.2 Board indicator state:

Power light: external power indicator

Talking light: The indicator will light when the talking or ring or cannot find simcard.

Signal light: network signal indicator, flashing with signal and extinguish without signal.

In use light: it lights when start the unit and cannot connect to the gsm module. It lights when you pick off the hand of a phone.

4.3 Dialing call

When signal strength indicator displays to receive strength signal and the working indicator in the light state, pick off the handset which connects to the FWT, you can hear the dialing tone, if it connects to the payment, the payphone will display the dialing number and the charger when it get through. It will give the payphone or voip gateway a ACCURACY reverse polarity.

4.4 Incoming call

The phone will ring when call comes, pick off the handset to talk with the other side.

4.5 How to use payphone.

Please refer to the payphone manual.

4.6 Parameter Set

You can set through outside phone keyboard, input *888999# to enter into setting and input **00*0# to drop out. The setting directive and format is as follows, a long tone means setting successfully, two short tone means error setting, hang the phone and pick off again to set again.

5. Technology Index

1). Frequency ranges: GSM 900/1800MHZ. GSM850/1900MHZ(option)

2). SIM Card: It support 3VG-SIM card.

3). Phone interface: Supply RJ-11 Phone Interface

Hanging voltage:45V Picking off voltage: 30mA/41mA

Dialing tone Frequency: 450Hz

Ring voltage: 75V,25HZ,1second ring,4seconds silence

4). Antenna interface: Antenna amplifying > 1.5DB

Sensitivity < -104DBM

Transmitting power ≤ 3W

5). Adapter interface: INPUT: AC 110V/220V

OUTPUT: +12V/6000MA

6). Serial communication interface: RS-232 full serial interface mode (with assigned data transport line)

7). Operation Circumstance:

Operation temperature: -10°C ~ 60°C

Storage temperature: -20°C ~ 70°C

Operation humidity: 45% — 95%

Atmosphere pressure: 86 — 106Kpa

Environment noise: < 60DB

Transmitting Power: 2W

Sensitivity: < -104dbm

Antenna Amplifying: > 1.5db

Dialing frequency: 450Hz

Hanging voltage: 45V

Picking current: 30mA/41mA

Notice!

- Please read the rules carefully:
It is dangerous or will break the law against the rules
- Masking
Please make sure there is no masking to wireless frequency signal before using.
- Pay attention to the Traffic Security
Do not use the phone which connects to the FWT when you are driving.
- Disturbance
Affected by disturbance leads up to affect the phone capability like other mobile phone.
- Explosion Zone
Do not use the FWT in explosion zone or the place with the sign of “closing the wireless receive and dispatch unit”
- Latent explosive circumstances
Do not use the unit in latent explosive areas (e.g. Gas station, Flammable liquid, Gas transportation vehicle, warehouse etc.)
- Children
Do not let children play with the FWT. Perhaps they will be stabbed by antenna or stab

others. They may destroy the interface or make wrong call to add the charge.

- The eligible maintenance

Install and maintain by eligible maintenance people. Please contact to the supplier if there is something wrong with the unit. Do not open the equipment box or repaired by unauthorized company or persons. Avoid abnormal damage.

- Antenna

Use the antenna which is via approbation. Do not connect to the unnecessary antenna.

The unqualified antenna will damage the unit. Lay the antenna vertically and be far from the phone, do not bind the antenna cable and the phone line. Do not touch the antenna or close to the antenna less 10cm when you are on communication.

- Power Supply

Use the power supply which is via approbation. Do not connect to the unnecessary one.

The unqualified power supply will damage the unit.

Operation temperature go up is the normal phenomenon.

- Installation and Conjunction

Install the unit according to the manual and close the power when you connects the unit to other unit because during operation , the power is on and it will damage the unit.

- Set

Carry out operation and communication after being initialized setting by the supplier or the network operator. Only the supplier and the network operator have right to set the system setting.

- Connect to other equipment

Please read the manual carefully to gain safe guide before connecting to other equipment. Do not connect to unnecessary products.

6. Led status describe:

PWR:red, power indication

Talking: Yellow , talking, ring, no sim card insert

SIG:green, signal indication

In use:green, pick off indication , no gsm module

7. Parameter setting

Setting the parameter by phone, Entering the setting statue“*888999#”, Esc the setting statue and saving the data“**00*0#”。

type	describe		setting	esc
A	Set local code		**10*code#	**10*#
	Set IP1 (0)		**11*IP1#	**11* #
	Set IP2 (00)		**12*IP2#	**12* #
	Set IP3 (013)		**13*IP3#	**13* #
B	Set IP5 (13)		**15*IP5#	**15*#
	Limit (out 2-9)		**20*1#	**21*0#
	Limit (in)		**21*1#	**22*0#
	Limit (out 0)		**22*1#	**23*0#
	Limit (out 00)		**23*1#	**24*0#
	Limit (out 013)		**24*1#	**25*0#
C	Limit (out 13)		**29*1#	**29*#
	Spk gain		**30*X# (note X:1-4)	
	Mic gain		**31*X# (note X:1-4)	
	Spk value		**32*X# (note X:1-4)	
D	Mic value		**33*X# (note X:1-4)	
	Lock sim	Random lock	**40*1#	**40*#
		Fix lock	**41*1#	**41*#
	Lock FCT		**42*1#	**43*0#
E	Lock net		**43*1#	**44*0#
	HIDE caller ID.		**66*1#	**66*0#
F	DIAL WAITING TIME	AUTO DIALING out AFTER DELAY TIME	**67*X#	X IS DELAY TIME
G	Work frequency(option)	Auto search	**78*0#	
		PGSM 900MHZ	**78*1#	
		DCS 1800M	**78*2#	
		PCS 1900MHZ	**78*3#	
		EGSM 900/1800M	**78*4#	
		GSM 850/1900M	**78*5#	
H	CALLER ID.(option)		**88*1#,FSK Mode. if you want a caller is with a correct date need to set the date and time	**88*0#, DTMF mode
I	DATE AND TIME(option)		**44*MMDDHHmm#	Fist MM is month,DD is day,HH is hours,Second mm is minutes.
H	013 → 13		**51*1#	**51*0#
	Reset to Factory seting		**52*#	

Acquiescence :

Special number: 6000

Local code: no

IP1: no

Phone IP: close

Call limit: close

International call limit: close

Internal long distance call limit: close

local call: close

Local phone number call limit: close

PIN:

Earphone volume rate: 3[1-4]

Earphone volume : 3[1-4]

MIC Volume rate: 3[1-4]

MIC Volume adjust: 3[1-4]

Lock card state: close

Lock unit state: close